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Applicants: David William Holden

Serial No.: 09/714,602

Art Unit: 1636

Filed: November 16, 2000

Examiner: Not Yet Assigned

For: *IDENTIFICATION OF GENES*

Assistant Commissioner for Patents
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §1.56 and 37 C.F.R. §1.97, Applicant submits an Information Disclosure Statement, including nine (9) pages of Form PTO-1449. The documents cited below were cited by or submitted to the Patent Office in Application Serial No. 08/637,759, filed July 19, 1997, and 09/201,945, filed December 1, 1998, to which the present application claims priority. Pursuant to 37 C.F.R. §1.98(d), Applicants are not enclosing copies of these publications. Copies will be provided upon request, however.

This Information Disclosure Statement is being filed under 37 C.F.R. § 1.97(b) prior to a first Office Action on the merits. It is believed that no fee is required with this submission. However, should a fee be required, the Commissioner is hereby authorized to charge any required fees to Deposit Account No. 50-1667.



U.S. Patents

<u>Number</u>	<u>Issue Date</u>	<u>Patentee</u>	<u>Class/Subclass</u>
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Foreign Documents

<u>Number</u>	<u>Publication Date</u>	<u>Patentee</u>	<u>Country</u>
WO 92/01056	01-23-1992	Institut Pasteur; Institut National De La Recherche Medical	PCT
WO 93/04202	03-04-1993	Washington University	PCT
WO 94/26933	11-24-1994	The Board of Trustees of the Leland Stanford Junior University	PCT

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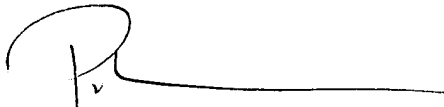
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Remarks

This statement should not be interpreted as a representation that an exhaustive search has been conducted or that no better art exists. Moreover, Applicant invites the Examiner to make an independent evaluation of the cited art to determine its relevance to the subject matter of the present application. Applicant is of the opinion that his claims patentably distinguish over the art referred to herein, either alone or in combination.

Respectfully submitted,

A handwritten signature in black ink, appearing to be 'Pabst', with a long horizontal line extending to the right.

Patrea L. Pabst
Reg. No. 31,284

Dated: June 12, 2001

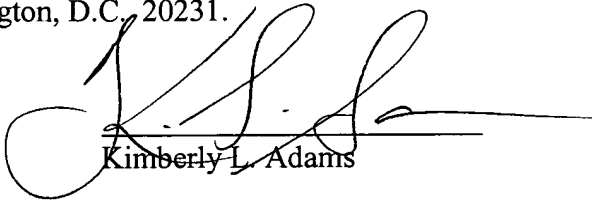
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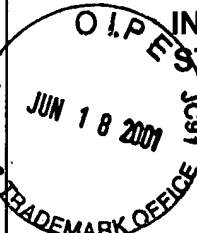
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		Filing Date	November 16, 2000
		First Named Inventor	David William Holden
		Group Art Unit	1636
		Examiner Name	
Sheet 1 of 9	Attorney Docket Number	RPMS 101 CON(3)	

U.S. PATENT DOCUMENTS						
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		Number	Kind Code ² (if known)			
		5,397,697	✓	Lam, et al.	03-14-1995	
		5,527,674		Guerra, et al.	06-18-1996	
		5,700,606	83	Stover, et al.	12-23-1997	
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FOREIGN PATENT DOCUMENTS								
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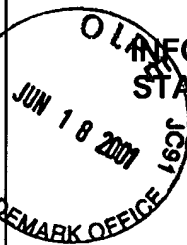
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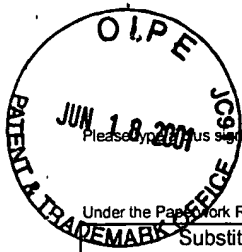
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Group Art Unit	1636
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OTHER ART – NON PATENT LITERATURE DOCUMENTS

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	✓	CAMILLI, et al., "Insertional Mutagenesis Of <i>Listeria Monocytogenes</i> With A Novel Tn917 Derivative That Allows Direct Cloning Of DNA Flanking Transposon Insertions", <i>J. Bacteriol.</i> 172:3738-3744 (1990).	
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	✓	CHIANG & MEKALANOS, "Use of signature-tagged transposon mutagenesis to identify <i>Vibrio cholerae</i> genes critical for colonization," <i>Mol. Microbiol.</i> 27:797-805 (1998).	
	✓	CHUANG, et al., "Global regulation of gene expression in <i>Escherichia coli</i> ," <i>J. Bacteriol.</i> 175:2026-2036 (1993).	
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	✓	FINLAY, et al., "Identification And Characterization Of TnpH _o A Mutants Of <i>Salmonella</i> That Are Unable To Pass Through A Polarized MDCK Epithelial Cell Monolayer," <i>Mol. Microbiol.</i> 2:757-766 (1988).	

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Application Number	09/714,602
Filing Date	November 16, 2000
First Named Inventor	David William Holden
Group Art Unit	1636
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		FREESTONE, et al., "Stabilized 17D strain yellow fever vaccine:dose response studies, clinical reactions and effects on hepatic function," <i>Journal of Biological Standardization</i> 5:181-186 (1977).	
	✓	GAILLARD, et al., "Transposon mutagenesis as a tool to study the role of hemolysin in the virulence of <i>Listeria monocytogenes</i> ," <i>Infect. Immun.</i> 52:50-55 (1986).	
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	✓	GROISMAN, et al., "Molecular, Functional And Evolutionary Analysis Of Sequences Specific To Salmonella," <i>Proc. Natl. Acad. Sci. USA</i> 90:1033-1037 (1993).	
	✓	GROISMAN, et al., "Salmonella Typhimurium phoP Virulence Gene Is A Transcriptional Regulator," <i>Proc. Natl. Acad. Sci. USA</i> , 86:7077-7081 (1989).	
	✓	HAN, et al., "Tn5 tagging of the phenol-degrading gene on the chromosome of <i>Pseudomonas putida</i> ," <i>Mol. Cells</i> 7:40-44 (1997).	
	✓	HENSEL, et al., "Simultaneous Identification Of Bacterial Virulence Genes By Negative Selection," <i>Science</i> 269:400-403 (1995).	
		HENSEL, et al., "Analysis of the boundaries of <i>Salmonella</i> pathogenicity island 2 and the corresponding chromosomal region of <i>Escherichia coli</i> K-12," <i>Journal of Bacteriology</i> 179:1105-1111 (1997).	

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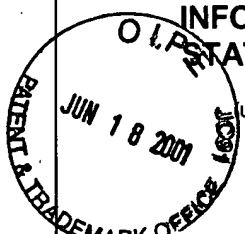
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	✓	HOLLAND, et al., "Tn916 Insertion Mutagenesis In Escherichia Coli And Haemophilus Influenzae Type b Following Conjugative Transfer," <i>J. Gen. Microbiol.</i> 138:509-515 (1992).	
		JIANG, et al., "Structure and sequence if the rfb (O antigen) gene cluster of Salmonella serovar typhimurium (strain LY2)," <i>Mol. Microbiol.</i> 5:695-713 (1991).	
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	✓	KIM, et al., "The hrpA and hrpC operons of Erwinia amylovora encode components of a type III pathway that secretes harpin," <i>J. Bacteriol.</i> 179(5):1690-1697 (1997).	
	✓	LEAHY, et al., "Transposon mutagenesis in Acinetobacter calcoaceticus RAG-1," <i>J. Bacteriol.</i> 175:1838-1840 (1993).	
	✓	LEE & FALKOW, "Isolation of Hyperinvasive Mutants of Salmonella," <i>Methods Enzymol.</i> 265:531-545 (1994).	
		LEVINE, et al., "Salmonella vaccines" in <i>New Antibacterial Strategies</i> (Neu, HC, ed.), pp. 89-104, (Churchill Livingstone:London, 1990).	
	✓	LISITSYN, et al., "Cloning The Difference Between Two Complex Genomes," <i>Science</i> 259:946-951 (1993).	
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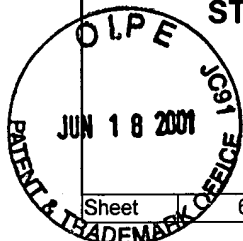
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	✓	LU, et al., "Tagged Mutations At The Tox1 Locus Of Cochliobolus Heterostrophus By Restriction Enzyme-Mediated Integration," <i>Proc. Natl. Acad. Sci. USA</i> 91:12649-12653 (1994).	
	✓	MAHAN, et al., "Selection Of Bacterial Virulence Genes That Are Specifically Induced In Host Tissues," <i>Science</i> 259:686-688 (1993).	
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	✓	MEI, et al., "Identification of Staphylococcus aureus virulence genes in a murine model of bacteraemia using signature-tagged mutagenesis," <i>Mol. Microbiol.</i> 26:399-407 (1997).	
	✓	MEJIA-RUIZ, et al., "Isolation and characterization of an Azotobacter vinelandii algK mutant.," <i>FEMS Microbiol. Lett.</i> 156:101-106 (1997).	
	✓	MILLER, et al., "A Two-Component Regulatory System (phoPphoQ) Controls Salmonella Typhimurium Virulence," <i>Proc. Natl. Acad. Sci. USA</i> 86:5054-5058 (1989).	
	✓	MILLER, et al., "Isolation Of Orally Attenuated Salmonella Typhimurium Following TnpH Mutagenesis," <i>Infection Immun.</i> 57:2758-2763 (1989).	
	✓	MORRISON, et al., "Isolation of transformation-deficient Streptococcus pneumoniae mutants defective in control of competence, using insertion-duplication mutagenesis with the erythromycin resistance determinant of pAM beta 1," <i>J. Bacteriol.</i> 159:870-876 (1984).	
	✓	MYERS & MYERS, "Isolation and characterization of a transposon mutant of Shewanella putrefaciens MR-1 deficient in fumarate reductase," <i>Let. Appl. Microbiol.</i> 25:162-168 (1997).	
	✓	NELSON, et al., "Genomic Mismatch Scanning: A New Approach To Genetic Linkage Mapping," <i>Nature Genetics</i> 4:11-17 (1993).	

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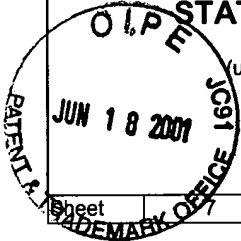


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	✓	NORGREN, et al., "A method for allelic replacement that uses the conjugative transposon Tn916: deletion of the emm6.1 allele in <i>Streptococcus pyogenes</i> JRS4," <i>Infect. Immun.</i> 57:3846-3850 (1989).	
		OCHMAN & GROISMAN, "Distribution of pathogenicity islands in <i>Salmonella</i> spp." <i>Infection and Immunity</i> 64:5410-12 (1996).	
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	✓	PASCOPELLA, et al., "Use Of In Vivo Complementation In Mycobacterium Tuberculosis To Identify A Genomic Fragment Associated With Virulence," <i>Infection Immun.</i> 62:1313-1319 (1994).	
	✓	PELICIC, et al., "Genetic advances for studying Mycobacterium tuberculosis pathogenicity," <i>Molecular Microbiology</i> 28:413-420 (1998).	
		PLUNKETT, EMBL ID NO:EC29479, ACCESSION NO.: U29579 (March 4, 2000).	
	✓	POLISSI, et al., <i>Fourth European Meeting on the Molecular Biology of the Pneumococcus</i> , Abstract A.18 (1997).	
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	✓	REGUE, et al., "A generalized transducing bacteriophage for <i>Serratia marcescens</i> ," <i>Res. Microbiol.</i> 142:23-27 (1991).	
	✓	RELLA, et al., "Transposon insertion mutagenesis of <i>Pseudomonas aeruginosa</i> with a Tn5 derivative: application to physical mapping of the arc gene cluster," <i>Gene</i> 33:293-303 (1985).	

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	✓	ROOS, et al., "Tagging genes and trapping promoters in <i>Toxoplasma gondii</i> by insertional mutagenesis," <i>Methods</i> 13:112-122 (1997).	
	✓	ROTT, et al., "At least two separate gene clusters are involved in albicidin production by <i>Xanthomonas albilineans</i> ," <i>J. Bacteriol.</i> 178:4590-4596 (1996).	
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	✓	SCHIESTL & PETES, "Integration of DNA fragments by illegitimate recombination in <i>Saccharomyces cerevisiae</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 88:7585-7589 (1991).	
	✓	SHARETZSKY, et al., "A novel approach to insertional mutagenesis of <i>Haemophilus influenzae</i> ," <i>J. Bacteriol.</i> 173:561-1564 (1991).	
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		SMITH, et al., "Genetic Footprinting: A Genomic Strategy For Determining A Gene's Function Given Its Sequence," <i>Proc. Natl. Acad. Sci. USA</i> 92:6479-6483 (1995).	

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		SMITH, et al., "Virulence Of Aspergillus Fumigatus Double Mutants Lacking Restriction And An Alkaline Protease In A Low-Dose Model Of Invasive Pulmonary Aspergillosis," <i>Infection Immun.</i> 62(4):1313-1319 (1994).	
		STEIN, EMBL ID NO:ST51867, ACCESSION NO.: U51867 (March 4, 2000).	
	✓	STOJILJKOVIC, et al., "Ethanolamine utilization in Salmonella typhurium: nucleotide sequence, protein expression, and mutational analysis of the cchA cchB eutE eutJ eutG eutH gene cluster," <i>J. Bacteriol.</i> 177(5)1357-66 (1995).	
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	✓	WOOLEY, et al., "Transfer of Tn1545 and Tn916 to Clostridium acetobutylicum," <i>Plasmid</i> 22:169-174 (1989).	

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